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NOTICE OF ALLOWANCE AND FEE(S) DUE

36981 7590 09/28/2009
ROPES & GRAY LLP
PATENT DOCKETING 39/361
12.11 AVENUE OF THE AMERICAS

NEW YORK, NY 10036-8704

DO, CHAT C

ART UNIT PAPER NUMBER

2193 DATE MAILED: 09/28/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/783,789	02/20/2004	Leon Zheng	174/294	7188	

TITLE OF INVENTION: FLEXIBLE ACCUMULATOR IN DIGITAL SIGNAL PROCESSING CIRCUITRY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/28/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION NO THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used to correspondence including d below or directed off tions.	or trans ig the Parker is incrwise i	mitting the ISSU atent, advance or in Block 1, by (a	JE FEE and PUBLICA: ders and notification of a) specifying a new corn	TION FEE (if requirements fees versions)	ired). I vill be ; and/o	Blocks 1 through 5 s mailed to the current r (b) indicating a sepa	hould be correspo trate "FE	completed where ndence address as E ADDRESS" for
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NEW YORK, N	Y 10036-8704								(Depositor's name)
				L					(Signature)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTO	3	ATTO	RNEY DOCKET NO.	CONFI	RMATION NO.
10/783,789	02/20/2004	•		Leon Zheng		•	I74/294		7188
TITLE OF INVENTION	: FLEXIBLE ACCUMU	LATOR	IN DIGITAL SI	GNAL PROCESSING C					
APPLN, TYPE	SMALL ENTITY	ISS	UE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	SUE FEE TOTAL FEE(S)		EE(S) DUE DATE DUE	
nonprovisional	NO		\$1510	\$300	\$0		\$1810		12/28/2009
EXAM	INER	- /	ART UNIT	CLASS-SUBCLASS					
DO, CI			2193	708-603000					
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignce is ident h in 37 CFR 3.11. Comp	nge of C "Indicated, Use	Correspondence ion form of a Customer PRINTED ON	2. For printing on the (I) the names of up to or agents OR, alternat (2) the name of a sin registered attorney or 2 registered patent att listed, no name will b THE PATENT (print or ty data will appear on the I a substitute for filing a (B) RESIDENCE: (CIT)	o 3 registered paterively, the firm (having as agent) and the nam orneys or agents. If a printed. (pp) patent. If an assignment.	memb es of u no nan	p to p to see is 3dentified below, the d	ocument	has been filed for
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	s SMALL ENTITY state	is. See 3	7 CFR 1.27.	☐ b. Applicant is no lo					
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) w tes Pater	ill not be accepted at and Trademark	from anyone other than Office.	the applicant; a reg	istered :	attorney or agent; or th	ne assigne	e or other party in
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This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DC 13-1450.	FR 1.31 U.S.C. USPTC rden, sho NOT S	The information The information Time will vary ould be sent to the END FEES OR	on is required to obtain or 1.14. This collection is e depending upon the ind e Chief Information Offic COMPLETED FORMS	retain a benefit by stimated to take 12 vidual case. Any co- er, U.S. Patent and O THIS ADDRES	the pub minute omment Trader S. SEN	lic which is to file (and is to complete, includir is on the amount of ti- nark Office, U.S. Dep D TO: Commissioner	I by the U ig gatheri me you re artment o for Paten	ISPTO to process) ng, preparing, and equire to complete of Commerce, P.O. ts, P.O. Box 1450,

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10/783,789	02/20/2004	Leon Zheng	174/294	7188		
36981	7590 09/28/200	•	EXAMINER			
ROPES & GRAY LLP			DO, CHAT C			
PATENT DOCI		ART UNIT	PAPER NUMBER			
1211 AVENUE OF THE AMERICAS NEW YORK, NY 10036-8704			2193 DATE MAILED: 09/28/2009			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 703 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 703 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/783,789 ZHENG ET AL. Notice of Allowability Examiner Art Unit Chat C. Do. 2193 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 08/18/2009 and 02/13/2009. The allowed claim(s) is/are 1-10. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some*} \) c) \(\subseteq \text{None} \) of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other .

Primary Examiner, Art Unit 2193

/Chat C. Do/

REASONS FOR ALLOWANCE

Claims 1-10 are allowed.

Claims 11-24 are canceled.

3. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render an obviousness of a method for initializing or zeroing an accumulator value comprising: routing signals concentrated in a particular area of a programmable logic resource; applying a multiplying operation to the signals; applying the feedback wherein initially set to zero; concatenating first pair of input signals; concatenating the feedback output onto the end of the concatenated first pair of input signals; applying an accumulate operation on the results; and storing the result for use as an initialized or zeroed accumulate value as seen in independent claims 1 and 8.

The closest found prior art are references by Owen et al. (U.S. 4,876,660) in view of Simkins et al. (U.S. 2005/0144215 A1). Owen et al. in view of Simkins et al. also disclose the method for initializing or zeroing an accumulator value. However, Owen et al. in view of Simkins et al. fail to either expressively or inherently disclose the step of concatenating the feedback output onto the end of the concatenated first pair of input signals as seen in the above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue Application/Control Number: 10/783,789

Art Unit: 2193

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (571)272-3721. The examiner can normally be reached on Tue-Fri 7:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lewis Bullock can be reached on (571) 272-3759. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Chat C. Do/ Primary Examiner, Art Unit 2193

September 23, 2009